SYSTEM TEST REPORT TEMPLATE

Version 1.0

November 16, 2000

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FOREWORD

This document was developed to provide any System Integration and Testing (SI&T) project using formal system testing procedures with a template for creating a System Test Report (STR). This template may be supplemented with project-specific information to produce a STR that enables the management, support, and technical personnel to assess the testing and the results of the testing. The STR is a record of the formal functional testing performed on a Computer Software Configuration Item (CSCI), a software system or subsystem, or other software-related items.

This template describes the elements to be considered when preparing a STR. It is in accordance with the MIL-STD-498 Data Item Description (DID) for an STR, DI-IPSC-81440.

United States (U. S.)Department of Education, Office of Student Financial Assistance (SFA), will retain and maintain this STR template. Users of this document may report deficiencies in, and or corrections to this document using the Document Change Request (DCR) form. U. S. Department of Education, SFA, collects and processes reported information as inputs for process improvements to the STR template.

NOTE: The use of automated techniques is encouraged. The term "document" used in this report means a collection of data regardless of its medium. Diagrams, tables, matrices, and other presentation styles are acceptable substitutes for text, when data required by this report can be made more understandable using these styles.

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GLOSSARY

Aggregate

A mass of distinct things gathered into a total or whole.

Aggregation Level

Effective measurement analysis and reporting requires that the data be aggregated to higher levels of the of the software components and project organizational structure. The aggregation levels define the different ways the measurement data can be grouped and organized for reporting on the project. The aggregation levels describe how the measurement data relates to an existing product and process structures. The organization that allows the measurement results to be combined, and later decomposed, into meaningful pieces of information.

Aggregation Structure

The structure used to define the data according to the defined aggregation levels. The levels may describe the personnel and management structure of the project, or the configuration of physical components of the project. All entries in a structure should be of the same type, such as software modules. However, these entries may reside at various levels of the structure, such as software modules at the unit level, CSCI, or integrated level of the software architecture.

Application

(1.) A complete, self-contained program that performs specific function(s) directly for the user.

(2.) In the TPM process this term refers to one of the two basic measurement activities which comprise the system measurement process. The application activity involves collecting, analyzing, and acting upon the measurement data.
See **Tailoring**

Automated Test Script

A computer readable set of instructions that performs a sequence of steps, sub-steps, or other actions, performed serially, in parallel, or in some combination of consecution, that creates the desired test conditions that the test case is deigned to evaluate.

Baseline

A specification or product that has been formally reviewed and agreed upon, that thereafter serves as the basis for further development, and that can be changed only through formal change control procedures.

Baseline Control

Baseline control is the process that regulates approved and released versions of all software, documentation, and the test environment throughout the test life cycle.

Black Box Testing

This is testing associated with functional testing where the object being tested is treated as a black box. In this type of testing the test object is subjected to inputs and outputs that are verified for conformance to prescribed specifications.

Capacity Testing

Attempts to simulate expected customer peak load operations in order to ensure that the system performance requirements are met. It does not necessarily exercise all of the functional areas of the system, but selects a subset that is easy to replicate in volume. It will ensure that functions which are expected to use the most system resources are adequately represented.

Change Control

The process by which problems and changes to the software, documentation, and test environment are evaluated, approved, rejected, scheduled, and tracked.

Computer Aided Software Engineering (CASE)

A technique for using computers to help with one or more phases of the software life cycle, including the systematic analysis, design, implementation and maintenance of software. Adopting the CASE approach to building and maintaining systems involves software tools and training for the developers who will use them.

Computer Software Configuration Item (CSCI)

An aggregation of software that is designated for configuration management and treated as a single entity in the configuration management process.

Configuration Control

An element of configuration management, consisting of the evaluation, coordination, approval or disapproval, and implementation of changes to configuration items after formal establishment of their configuration identification.

Configuration Item (CI)

Hardware or software, or an aggregate of both, which is designated by the project configuration manager (or contracting agency) for configuration management.

Configuration Management (CM)

A discipline applying technical and administrative direction and surveillance to: identify and document the functional and physical characteristics of a configuration item, control changes to those characteristics, record and report change processing and implementation status, and verify compliance with specified requirements.

Configuration Management Office (CMO)

The Configuration Management Office (CMO) is the officiator of the project life cycle CM process.

Criteria

A standard, rules, or tests by which something can be judged.

Critical Defect

See Criticality

Criticality

The assessment of the impact upon a system of a given error, defect, problem, or discrepancy during the life cycle of a system.

The definition of critical and non-critical system defects or problems should be addressed at a management level and can be different for each system. For any given system error, defect, problem, or discrepancy, an appropriate impact value (i.e., priority) will be assigned.

An example of impact values with the corresponding priority numbers is presented below as contained in IEEE/EIA Std-12207, 1998. The priority that will apply if a problem can result in one or more of these impacts:

PRIORITY   IMPACT

1.   a.) Prevent the accomplishment of an operational or mission essential capability.

b.) Jeopardize safety.

c.) Cause significant technical, cost, or schedule risks to the project or to life cycle support of the system.

2.   a.) Adversely affect the accomplishment of an operational or mission essential capability and no work-around solution is known.

b.) Adversely affect technical, cost, or schedule risks to the project or to life cycle support of the system, and no work-around is known.

3.   a.) Adversely affect the accomplishment of an operational or mission essential capability, but a work-around solution is known.

b.) Adversely affect technical, cost, or schedule risks to the project or to life cycle support of the system, but a work-around is known.

4.   a.) Results in user/operator inconvenience or annoyance, but does not affect a required operational or mission essential capability.

b.) Results in inconvenience or annoyance for development or support personnel, but does not prevent the accomplishment of the responsibilities of these personnel.

5.   a.) This priority denotes any other effect.

Customer

The organization that procures software systems for itself or another organization.

Developer

An organization that develops software products. The term "develop" may include develop, modification, integration, reengineering, sustaining engineering, maintenance, or any other activity that results in software products. The developer may be a contractor or a government agency.

Discrepancy

An inconsistency or disagreement found during testing between the actual and expected test results.

Document

A data medium and the data recorded on it that generally has permanence and can be read by a human operator or machine. Often used to describe human readable items only (e.g., technical documents, design documents, requirements documents, etc.).

Documentation

(1.) A collection of documents on a given subject.

(2.) The management of documents, that includes the actions of identifying, acquiring, processing, storing, and disseminating.

(3.) Any written or pictorial information describing, defining, specifying, reporting or certifying activities, requirements, procedures, or results.

Driver

A software program that exercises a system or system component by simulating the activity of a higher level component.

Emulation

One system is said to emulate another when it performs in exactly the same way, though perhaps not at the same speed. A typical example would be the emulation of one computer by (a program running on) another. You might use emulation, as a replacement for a system whereas you would use a simulation if you just wanted to analyze it and make predications about it.

Emulator

Hardware or software that performs emulation.

Entry Criteria

A set of decision making guidelines used to determine whether a system under test is ready to move into, or enter, a particular phase of testing. Entry criteria tend to become more rigorous as the test phases progress.

Environment

The infrastructure in which a system is executing, consisting of hardware, operating system software, interfaces, etc.

Exit criteria

A set of decision-making guidelines used to determine whether a system under test is ready to exit a particular phase of testing. When exit criteria are met, either the system under test moves on to the next test phase or the test project is considered complete. Exit criteria tend to become more rigorous as the test phases progress.

Final System Test Report (FSTR)

Used to determine whether system testing is completed and to assure that software is ready for production.

Hardware Configuration Item (HWCI)

An aggregation of hardware that is designated for configuration management and treated as a single entity in the configuration management process.

Independent Verification and Validation (IVV)

The verification and validation of a software product by an organization that is both technically and managerially separate from the organization responsible for developing the product.

Indicator

A measure or combination of measures that provides insight into a system issue or concept. TPM frequently uses indicators that are comparisons, such as planned versus actual measures. Indicators are generally presented as graphs or tables.

Integration

Combining software or hardware components or both into an overall system.

Integration Testing

The period of time in the software lifecycle during which the application is tested in a simulated production environment to validate the communications and technical architecture of the system. This test phase occurs when all the constituent components of the system under test are being integrated.

Interactive Development Environment (IDE)

A system for supporting the process of writing software. Such a system may include a syntax-directed editor, graphical tools for program entry, and integrated support for compiling and running the program and relating compilation errors back to the source code.

Interface

(1.) A shared boundary (e.g., a hardware component linking two devices or registers, or a portion of storage accessed and/or modified by two or more computer programs).

(2.) To interact or communicate with another system component.

Interface Requirement

A requirement that specifies a hardware, software, or database element with which a system or system component must interface, or that sets forth constraints caused by such an interface.

Interface Specification

A specification that sets forth the interface requirements for a system or system component (e.g., the software interface specification document).

Interface Testing

Tests conducted to ensure that program or system components correctly pass data and/or control to one another.

Issue

An area of concern where obstacles to achieving program objectives might arise. Issues include risks, problems, and lack of information. These three types of issues are defined as:

- Risk -- An area of concern that could occur, but is not certain. A risk is a potential problem. Risks represent the potential for the realization of unwanted, negative consequences from a project event. For example, a project plan may be based on the assumption that a COTS component will be available on a given date. There is a possibility (probability) that the COTS may be delayed and have some amount of negative impact on the project.

- Problem -- An area of concern that a project is currently experiencing or is relatively certain to experience. For example, a shortage of staff with the right skills may be an actual problem that is delaying the project.

- Lack of Information -- An area where the available information is inadequate to reliably predict project impact. Thus, satisfaction of project objectives is questionable even if no problems or risks are present. For example, lack of

information about the size of the software to be developed could result in the project "discovering" that it has more work to do than originally planned.

Measure

The result of counting or otherwise quantifying characteristics of a process or product. Measures are numerical values assigned to system attributes according to defined criteria.

Measured (or actual) Value

Actual, current measurement data, such as hours of effort expended or line of code produced.

Measurement

The process of assigning quantitative values of system properties, according to some defined criteria. This process can be based on estimation or direct measurement. Estimation defines planned or expected measures. Direct measurement results in actual measures.

Measurement Analysis

The uses of measurement data to identify problems, assess problem impact, project an outcome, or evaluate alternatives related to system issues.

Measurement Analyst

The person(s) or team responsible for tailoring and applying system measures for a given project or task.

Measurement Information

Knowledge derived from analysis of measurement data and measurement indicators.

Milestone

A scheduled event for which some project or task member or manager is held accountable. A milestone is often used to measure progress.

Module

A program unit that is discrete and identifiable with respect to compiling, combining with other units, and loading.

Note: *The terms 'module', 'component', and 'unit' are often used interchangeably or defined to be sub-elements of one another in different ways depending on the context.*

Non-Critical Defect

See Criticality

Performance Testing

The period of time in the system or software development lifecycle during which the response times for the application are validated to be acceptable. The tests ensure that the system environment will support production volumes, both batch and on-line.

Priority

A measure of the elements of importance related to the repair of a system problem that are not considered in defining the severity of a system problem.

Project Manager (PM)

The official responsible for acquiring, developing, or supporting a system to meet technical, cost, schedule, and quality requirements. Acquisition, development, and support will include both internal tasks and work that is contracted to another source.

Quality Assurance (QA)

A planned and systematic pattern of all actions necessary to provide adequate confidence that the product optimally fulfils customers expectations.

Quality Control (QC)

The assessment of product compliance. Independently finding deficiencies assures compliance of the product with stated requirements.

Requirement

(1.) A condition or capability needed to solve a problem or achieve an objective.

(2.) A condition or capability that must be met or possessed by a system or system component to satisfy a contract, standard, specification, or other formally imposed document. The set of all requirements forms the basis of development.

Regression testing

Part of the test phase of software development where, as new modules are integrated into the system and the added functionality is tested, previously tested functionality is re-tested to assure that no new module has corrupted the system.

Risk

An area of concern that may occur, but is not certain. A risk is a potential problem. Risks represent the potential for the realization of unwanted, negative consequences from a project event. For example, a project plan may be based on the assumption that a commercial off the shelf (COTS) component will be available on a given date. There is a possibility (probability) that the COTS may be delayed and have some amount of negative impact on the project.

Severity

The degree to which a problem adversely influences the system's operation or the overall test effort.

Simulation

Attempting to predict aspects of the behavior of a system by creating an approximate (mathematical) model of it. This can be done by physical modeling, by writing a special-purpose computer program or using a more general simulation package, aimed at a particular kind of simulation. Typical examples are aircraft simulators or electronic circuit simulators.

Simulator

Hardware or software that performs simulation.

Software Design Specification (SDS)

A document that records the design of a system or system component; typical contents include: system and/or component algorithms, control logic, data structures, data set use, input/output formats, and interface descriptions.

Software Development File (SDF)

The developer shall document the development of each Computer Software Unit (CSU), Computer Software Component (CSC), and CSCI in Software Development Files (SDF). The developer shall establish a separate SDF for each CSU or a logically related group of CSUs, for each CSC or a logically related group of CSCs, and for each CSCI. The developer shall document and implement procedures to establish and maintain SDFs. SDFs may be generated, maintained, and controlled by automated means. To reduce duplication, SDFs should not

contain information provided in other documents or SDFs. The set of SDFs shall include (directly or by reference) the following information:

- Design considerations and constraints.

- Design documentation and data.

- Scheduling and status information.

- Test requirements and responsibilities.

- Test case, test case procedures, and results.

Software Life Cycle

The phases a software product goes through between when it is conceived and when it is no longer available for use. The software life cycle typically includes the following: requirements, analysis, design, construction, testing (validation), installation, operation, maintenance, and retirement. The development process tends to run iteratively through these phases rather than linearly; several models (spirals, waterfall, etc.) have been proposed to describe this process. Other processes associated with a software product are: quality assurance, marketing, sales, and support.

Software Management Plan

A project plan for the development of the software component of a system or for the development of a software product.

Software Requirements Document (SRD)

This is a formal document derived from the Software Requirements Specification (SRS) that sets forth the requirements, specifications, and standards for a system (e.g., a software product). Typically included are functional specifications and requirements, performance specifications and requirements, interface specifications and requirements, design specifications and requirements, and development requirements and standards.

Software Requirements Specification (SRS)

A specification that sets forth the requirements for a system component; (e.g., a software product). Typically included are functional requirements, performance requirements, interface requirements, design requirements, and development standards.

Software Tool

Computer programs used to help develop, test, analyze, or maintain another computer program or its documentation.

Specification

Documentation containing a precise, detailed, verifiable description of particulars with respect to the requirements, design, function, behavior, construction, or other characteristics of a system or system component.

Stub

(1.) A dummy procedure used when linking a program with a run-time library. The stub routine need not contain any code and is only present to prevent "undefined label" errors at link time.

(2.)A local procedure in a remote procedure call (RPC). The client calls the stub to perform some task and need not necessarily be aware that RPC is involved. The stub transmits parameters over the network to the server and returns the results to the client/caller.

System

(1.) Any large program.

(2.) The entire computer system, including the input/output devices, supervisor program or operating system and possibly other software.

System Problem Report (SPR)

A form that is used to record a discrepancy discovered during the Integration Test, Performance Test and System Qualification Test phases of the SI&T process concerning a Computer Software Configuration Item, a software system or subsystem, other software related items, and associated documentation.

System Problem Report (SPR) Status Report

The System Problem Report Status Report is used during the SPR Status Review to determine if the SPRs are being processed appropriately and expeditiously.

System Testing

The period of time in the software lifecycle during which the implementation of each requirement is validated.

Tailoring

In the TPM process, this term refers to one of the two basic measurement activities, which comprise the system measurement process. The tailoring activity includes identification and prioritization of program issues, selection and specification of appropriate system measures, and integration of the measurement requirements to the developer's system process.
See **Application**.

Test

The process of exercising a product to identify differences between expected and actual behavior.

Test Artifacts

An item created during the system integration and test process that is preserved upon completion of the test process (e.g., test plans, requirements documentation, automated test scripts, and test documentation).

Test Case

A description of a test to be executed for or focused on a specific test aim.

Test Case Procedures

A sequence of steps, sub-steps, and other actions, performed serially, in parallel, or in some combination of consecution, that creates the desired test conditions that the test case is designed to evaluate.

Test Case (Setup) Suite

The steps required to configure the test environment for execution of a test case.

Testing Condition

System state or circumstance created by proceeding through some combination of steps, sub-steps, or actions in a test case.

Testing Environment

The infrastructure in which the test is performed, consisting of hardware, system software, test tools, and procedures.

Test Plan

In a test plan the general structure and the strategic choices with respect to the test to be executed are formulated. The test plan forms the scope of reference during execution of the test and also serves as an instrument to communicate with the customer of the test. The test plan is a description of the test project, including a description of the activities and planning, therefore it is *not* a description of the tests themselves.

Test Readiness Review (TRR)

Review conducted to determine whether a software test phase has been completed and to assure that the software is prepared for the next step in the formal integration and testing procedures. Software test procedures and results are evaluated, for compliance with the software testing requirements and system descriptions, for adequacy in accomplishing testing goals. Also, provides the forum for updating and revising operational and supporting documentation.

Test Resources

Aids that are used by a test tool for collecting, tracking and controlling information. This information is:

- Software requirements defined in the Software Requirements Document.

- Test requirements defined in the System Test Description.

- Automated test case scripts as defined in the System Test Description.

- SPRs as determined at each phase of the System Integration and Testing process.

This information is controlled by Configuration Management at the end of the SI&T process for use whenever further testing may be conducted, using a testing tool, during the remaining lifecycle of the software or system.

Test Tools

The software, hardware, systems, or other instruments that are used to measure and test an item.

Traceability

Degree to which a relationship can be established between two or more products of the development process, especially products having a predecessor, successor, or master-subordinate relationship to one another (e.g., the degree to which the requirements and design of a given software component match).

Unit

The lowest element of a software hierarchy that contains one or more of the following characteristics:

- A unit comprising one or more logical functional entities.

- An element specified in the design of a computer software component that is separately testable.

- The lowest level to which software requirements can be traced.

- The design and coding of any unit can be accomplished by a single individual within the assigned schedule.

Unit Test

The process of ensuring that the unit executes as intended. This usually involves testing all statements and branch possibilities.

Version

One of a sequence of copies of a system, each incorporates new modifications.

Version Identifier

A unique identifier assigned to baseline software, documentation, and test environment.

Version Control

The process by which all changes to the software, documentation, and test environment are compiled and built into a new version of the system.

Version Control Report

A report that details all changes and enhancements made to current version of the software, documentation, and test environment.

White Box Testing

This type of testing is associated with structural testing in which the testing can be characterized as being tied to implementation details, such as control methods, database design, coding details, and logic paths. The process of how an individual input is treated to produce a given output is ascertained. Structural testing is sometimes referred to as "clear box testing" since white boxes are considered opaque and do not really permit visibility into the code.

Work Breakdown Structure (WBS)

A work breakdown structure for software defines the software-related elements associated with program work, work activities, and products. Many measures are aggregated and analyzed at various WBS levels.

DOCUMENT CHANGE REQUEST (DCR)

DOCUMENT: System Test Report (STR) Template, Version 1.0

SFA TRACKING NUMBER:_____

NAME OF SUBMITTING ORGANIZATION:_____

_____

ORGANIZATION CONTACT:_____TELEPHONE:_____

MAILING ADDRESS:_____

_____

DATE:_____ SHORT TITLE:_____

CHANGE LOCATION:_____
(Use section #, figure #, table #, etc.)

PROPOSED CHANGE:

REASON FOR CHANGE:

....…………….…………..
Note: For the U. S. Department of Education, Office of Student Financial Assistance (SFA), to take appropriate action on a change request, please provide a clear description of the recommended change along with supporting reason.

Send to: United States Department of Education, Office of Student Financial Assistance, 400 Maryland Avenue SW, Washington DC 20202 or Fax to: (202) 205-8532.

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RECORD OF CHANGES

CHANGE NUMBER	DATE	FIGURE, TABLE, OR PARAGRAPH NUMBER	A/M/D*	TITLE OR BRIEF DESCRIPTION	CHANGE REQUEST NUMBER

* **A** = ADD
M = MODIFY
D = DELETE

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DOCUMENT CONVENTIONS

[Text]   Replace text.

*text in italics*   Notes or instructions to the author.

NOTE: The next page is the start of the template that begins with a STR title and approval page. Delete this page and preceding pages in the final format of your STR. Remember to update the header page to reflect the submission date and your document configuration identifier for the project or system STR.

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SYSTEM TEST REPORT
FOR
[PROJECT NAME]

Integration Phase ☐   **Performance Phase** ☐   **System Quality Test Phase** ☐

Final System Test Report ☐
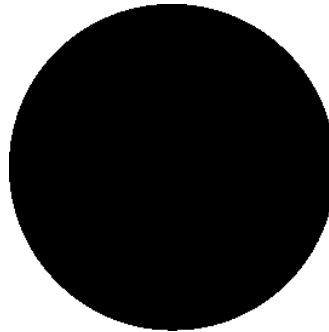
[Submission Date]

Prepared for:
U. S. Department of Education
Office of Student Financial Assistance
400 Maryland Avenue SW
Washington DC 20202

Prepared by:
[Organization Name and Address]

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SYSTEM TEST REPORT
FOR
[PROJECT NAME]

Integration Phase ☐ **Performance Phase** ☐ **System Quality Test Phase** ☐

Final System Test Report ☐

The undersigned certify that they have reviewed this System Test Report (STR). It has been determined that the deliverable meets requirements, meets requirements with concerns, or does not meet requirements. If the deliverable meets requirements with concerns, or does not meet requirements, an explanation must be provided along with necessary documentation.

_____   Date   _____

Project Manager Signature

☐   Meets Requirements

☐   Meets Requirements with Concerns

☐   Does Not Meet Requirements

_____

_____

_____   Date   _____

Integration Testing Team Manager Signature

☐   Meets Requirements

☐   Meets Requirements with Concerns

☐   Does Not Meet Requirements

_____

_____

_____   Date   _____
Integration Testing Team Leader Signature

☐   Meets Requirements

☐   Meets Requirements with Concerns

☐   Does Not Meet Requirements

_____

_____

[Additional signatures may be appended]

RECORD OF CHANGES

Version Number	Date	Description
1.0	November 2000	Original release of document

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TABLE OF CONTENTS

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1. SCOPE

1.1 Identification

This paragraph shall contain a full identification of the system and the software to which this document applies including, as applicable, identification number(s), title(s), abbreviation(s), version number(s), and release number(s).

1.2 System Overview

This paragraph shall briefly state the purpose of the system and the software to which this document applies. It shall describe the general nature of the system and software; summarize the history of system development, operation, and maintenance; identify the project sponsor, acquirer, user, developer, and support agencies; identify current and planned operating sites; and list other relevant documents.

1.3 Document Overview

This paragraph shall summarize the purpose and contents of this document and shall describe any security or privacy considerations associated with its use.

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2. REFERENCED DOCUMENTS

This section shall list the number, title, revision, and date of all documents referenced in this report. This section shall also identify the source for all documents not available through normal Government stocking activities.

2.1 Government Documents

(a) MIL-STD-498, Data Item Description (DID), DI-IPSC-81440

(b) SEPO, NCCOSC, Software Test Plan Template Ver. 1.2

(c) [add government documents referenced by your project]

2.2 [Non-Government Documents]

(a) [Add non-government documents referenced by your project.]

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3. OVERVIEW OF TEST RESULTS

This section shall be divided into the following paragraphs to provide an overview of the testing results.

3.1 Overall Assessment Of The Software Tested

This paragraph shall:
  a. *Provide an overall assessment of the software as demonstrated by the test results in this report.*
  b. *Identify any remaining deficiencies, limitations, or constraints that were detected by the testing performed. Problem/change reports may be used to provide deficiency information.*
  c. *For each remaining deficiency, limitation, or constraint, provide the needed information to describe the following:*
   1. *The impact on software and system performance including identification of requirements not satisfied.*
   2. *The impact on software and system design to correct it.*
   3. *A recommended solution/approach for correcting it.*

3.2 Impact To Test Environment

This paragraph shall provide an assessment of the manner in which the test environment may be different from the operational environment and the effect of this difference on test results.

3.3 Recommended Improvements

This paragraph shall provide recommended improvements in the design, operation, or testing of the software tested. A discussion of each recommendation and its impact on the software may be provided. If no recommended improvements are provided, this paragraph shall state "None."

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4. DETAILED TEST RESULTS

This section shall be divided into the following paragraphs to describe the detailed results for each test.

NOTE: The word "test" is defined for this template as a related collection of test cases.

4.1 [Project-Unique Identifier Of A Test]

This paragraph shall identify a test by project-unique identifier and shall be divided into the following subparagraphs.

4.1.1 Summary Of Test Results

This paragraph shall summarize the results of the test. The summary shall include, possibly in a table, the completion status of each test case associated with the test (e.g., "all results as expected," "problems encountered," "deviations required"). When the completion status is not "as expected," this paragraph shall reference the following paragraphs for details.

4.1.2 Problems Encountered

This paragraph shall be divided into subparagraphs that identify each test case in which one or more problems occurred.

4.1.2.1 [Project-Unique Identifier Of A Test Case]

This paragraph shall identify, by a project-unique identifier, a test case in which one or more problems occurred and shall provide:
> a. *A brief description of the problem(s) that occurred.*
> b. *Identification of the test case procedure step(s) in which the problem(s) occurred.*
> c. *Reference(s) to the associated problem/change report(s) and backup data, as applicable.*
> d. *The number of times the test case procedure or step was repeated in attempting to correct the problem(s) and the result(s) of each attempt.*
> e. *Backup points or test case procedure step(s) where tests were resumed for re-testing.*

4.1.3 Deviations From Test Cases or Test Case Procedures

This paragraph shall be divided in subparagraphs that identify each test case in which deviations from test case or test case procedures occurred.

4.1.3.1 [Project-Unique Identifier Of A Test Case]

This paragraph shall identify, by a project-unique identifier, a test case in which one or more deviations occurred and shall provide:

    a. A description of the deviation(s) (e.g., Test case identification in which the deviation occurred and the nature of the deviation, such as substitution of required equipment, test case procedure steps not followed, schedule deviations, etc.). Test case procedures may be redlined to show the deviations.

    b. The rationale for the deviation(s).

    c. An assessment of the deviations' impact on the validity of the test case.

5. TEST LOG

This paragraph shall present, possibly in a figure or appendix, a chronological record of the test events covered in this report. This test log shall include:

 a. *The date(s), time(s), and location(s) of the test(s) performed.*
 b. *The hardware and software configurations used for each test including, as applicable, part/model/serial number, manufacturer, revision level, and calibration date of all hardware and version number for the software components used.*
 c. *The date and time of each test-related activity, the identity of the individuals(s) who performed the activity, and the identities of witnesses.*

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6. NOTES

This section shall contain any general information that aids in understanding this document (e.g., background information, glossary, and rationale). This section shall include an alphabetic listing of all acronyms and abbreviations and their meaning, as used in this document, and a list of any terms and definitions needed to understand this document.

6.1 Abbreviations and Acronyms

LIST OF ACRONYMS	
DCR	Document Change Request
DID	Data Item Description
CSCI	Computer Software Configuration Item
NCCOSC	Naval Command Control and Oceanographic Surveillance Center
SEPO	Software Engineering Project Office
SFA	Office of Student Financial Assistance
SRS	Software Requirements Specification
SSS	System/Subsystem Specifications
STP	System Test Plan
STR	System Test Report

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APPENDIX A. [ADDITIONAL DATA]

Appendixes may be used to provide information published separately for convenience in document maintenance (e.g., charts, classified data). As applicable, each appendix shall be referenced in the main body of the document where the data would normally be provided. Appendixes may be bound as separate documents for ease in handling. Appendixes shall be lettered alphabetically (A, B, etc.).

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